

WHAT IS CLAIMED IS:

1. A control unit for an internal combustion engine including the three way catalyst and HC adsorbent on an exhaust side,
wherein said control unit alternately controls the A/F between a rich state and
5 a lean state in order to quicken the activation of said three way catalyst when said internal combustion engine starts.
2. A control unit for an internal combustion engine including the three way catalyst on an exhaust side,
10 wherein control unit has a means for detecting completion of the evaporation of moisture in said three way catalyst directly or indirectly, and
wherein control unit alternately controls the A/F between a rich state and a lean state in order to quicken the activation of said three way catalyst after the completion of the evaporation of moisture in said three way catalyst is detected.
- 15 3. The control unit for an internal combustion engine according to claim 2,
wherein the ignition time is retarded for the period until moisture in said three way catalyst evaporates directly after the start of said internal combustion engine.
- 20 4. A control unit for an internal combustion engine including the three way catalyst on an exhaust side,
wherein control unit has a means for detecting the temperature of said three way catalyst directly or indirectly, and
wherein control unit alternately controls the A/F between a rich state and a

lean state in order to quicken the activation of the three way catalyst when the temperature of said three way catalyst is a value within the fixed range.

5. A control unit for an internal combustion engine including the three way catalyst on an exhaust side,

wherein control unit has a means for detecting the operating state of the internal combustion engine, and

- wherein control unit alternately controls the A/F between a rich state and a lean state in order to quicken the activation of the three way catalyst based on the operating state.

6. A control unit for an internal combustion engine including the three way catalyst and HC adsorbent on an exhaust side in the order,

wherein control unit has a means for detecting the temperature of said HC adsorbent directly or indirectly, and

wherein control unit alternately controls the A/F between a rich state and a lean state in order to change the temperature of said HC adsorbent.

7. The control unit for an internal combustion engine according to claim 6, wherein control unit alternately controls the A/F between a rich state and a lean state when the temperature of said HC adsorbent is within the fixed range.

8. A control unit for an internal combustion engine including a catalyst which has the three way catalyst and HC adsorbent in the same carrier on an exhaust side,

wherein control unit alternately controls the A/F between a rich state and a lean state in order to change the temperature of said HC adsorbent.